Amendments to the Claims:

This listing of claims will replace all prior versions of claims in the application:

Listing of claims:

1. (Previously presented) A compound of the formula I,

(Formula I)
$$\begin{array}{c} R^{3} - O - \stackrel{6}{}_{1} Y - \stackrel{1}{}_{2} - N - \stackrel{1}{}_{1} X - \stackrel{1}{}_{n} R^{1} \\ O - \stackrel{1}{}_{1} & \stackrel{1}{}_{2} & \stackrel{1}{}_{2} & \stackrel{1}{}_{3} \end{array}$$

wherein Y is selected from the group consisting of O, S, and NR⁴, whereby R⁴ is alkyl-, alkenyl, alkinyl, aryl-, acyl-, a protecting group or H,

wherein X is a linking moiety in which n is 0 or 1,

wherein \mathbb{R}^1 is independent from \mathbb{R}^2 , \mathbb{R}^3 and \mathbb{R}^4 , and wherein \mathbb{R}^1 is selected from the group consisting of

- (1) a protecting group,
- (2) a label, and
- (3) a solid phase,

wherein R^2 and R^3 are independent from each other and independent from R^1 or R^4 , and wherein R^2 and R^3 are selected from the group consisting of

- (1) -H,
- (2) a protecting group,
- (3) a solid phase and a linking moiety X,
- (4) a phosphoramidite,
- (5) a H-phosphonate, and
- (6) a triphosphate,

with the proviso that R^3 but not R^2 can be triphosphate and R^1 is not a solid phase if R^3 is a triphosphate,

with the proviso that R^2 and R^3 are not both a solid phase, not both a phosphoramidite, not both a H-phosphonate, not both -H or not both a protecting

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group, or not a phosphoramidite and a H-phosphonate, or not a solid phase and a phosphoramidite, or not a solid phase and a H-phosphonate,

and with the proviso that when one residue selected from the group consisting of \mathbb{R}^1 , \mathbb{R}^2 or \mathbb{R}^3 is a solid phase then the other two residues selected from the group consisting of \mathbb{R}^1 , \mathbb{R}^2 or \mathbb{R}^3 are not a solid phase.

- (Previously presented) A compound according to claim 1, wherein the linking moiety X comprises carbon and oxygen atoms.
- (Previously presented) A compound according to claim 1, wherein the linking moiety X comprises -(CH₂)_m or -(CH₂CH₂O)_m moieties, whereby m is an integer number between 1 and 10.
- (Previously presented) A compound according to claim 1, wherein the linking moiety X is selected from the group consisting of
 - (1) -CO-(CH₂)_m-Z-
 - (2) -CO-(CH2CH2O)m-CH2CH2-Z-

whereby m is an integer number between 0 and 10 and whereby Z is selected from the group consisting of NH, CO, O and S.

- 5. (Previously presented) A compound according to claim 4, wherein Y is O.
- (Previously presented) A compound according to claim 1, wherein the protecting group is selected from the group consisting of
 - (1) fluorenylmethoxycarbonyl-,
 - (2) dimethoxytrityl-,
 - (3) monomethoxytrityl-,
 - (4) trifluoroacetyl-,
 - (5) levulinyl-, and
 - (6) silyl-.
- (Previously presented) A compound according to claim 1, wherein the label is selected from the group consisting of
 - (1) a fluorescein dye,

- (2) a rhodamine dye,
- (3) a cyanine dye, and
- (4) a coumarin dye.
- (Previously presented) A compound according to claim 1, wherein the compound is a derivative of 1,5-anhydro-2-amino-2,3-dideoxy-D-mannitol or 1,5-anhydro-2amino-2,3-dideoxy-D-glucitol.
- (Currently amended) An oligomeric compound comprising a monomeric unit of formula II:

$$\begin{array}{c}
R^{\underline{6}} = O \xrightarrow{6} Y \xrightarrow{1}_{3} \xrightarrow{2} N \xrightarrow{1}_{1} X \xrightarrow{1}_{n} R^{\underline{1}}$$

$$O \xrightarrow{R^{\underline{5}}}$$

(formula II)

wherein Y is selected from the group consisting of O, S and NR⁴, whereby R⁴ is alkyl-, alkenyl, alkinyl, aryl-, acyl-, a protecting group or H;

wherein X is a linking moiety in which n is 0 or 1,

wherein R^7 is independent from R^4 , R^5 and R^6 and wherein R^7 is selected from the group consisting of

- $(1) H_{\bullet}$
- (2) a protecting group,
- (3) a label,
- (4) an oligonucleotide, and
- (5) a solid phase,

wherein R^5 and R^6 are independent from each other and independent from R^4 or R^7 ,

and wherein R5 and R6 are selected from the group consisting of

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- (1) -H,
- (2) a solid phase and a linking moiety X,
- (3) a phosphate, and
- a phosphodiester with a nucleotide, a modified nucleotide, an oligonucleotide or a modified oligonucleotide,

with the proviso that R⁵ and R⁶ are not both –H, both a solid phase and a linking moiety X, both a phosphate, or –H and a phosphate,

with the proviso that when one residue selected from the group consisting of \mathbb{R}^8 , \mathbb{R}^6 of and \mathbb{R}^7 is a solid phase then the other residues selected from the group consisting of \mathbb{R}^5 , \mathbb{R}^6 of and \mathbb{R}^7 are not a solid phase.

- (Previously Amended) The oligomeric compound according to claim 9, wherein the linking moiety X comprises carbon and oxygen atoms.
- (Previously presented) The oligomeric compound according to claim 9, wherein the linking moiety X comprises -(CH₂)_m or -(CH₂CH₂O)_m moieties in which m is an integer number between 1 and 10.
- (Previously presented) The oligomeric compound according to claim 9, wherein the linking moiety X is selected from the group consisting of
 - (5) -CO-(CH₂)_m-Z-
 - (6) -CO-(CH₂CH₂O)_m-CH₂CH₂-Z-

whereby m is an integer number between 0 and 10 and whereby Z is selected from the group consisting of NH, CO, O and S.

- (Previously presented) The oligomeric compound according to claim 12, wherein Z is NH and Y is O.
- (Previously presented) The oligomeric compound according to claim 9, wherein the protecting group is selected from the group consisting of
 - (1) fluorenylmethoxycarbonyl-,
 - (2) dimethoxytrityl-,
 - (3) monomethoxytrityl-,
 - (4) trifluoroacetyl-,

- (5) levulinyl-, and
- (6) silyl-.
- (Previously presented) The oligomeric compound according to claim 9, wherein the label is a fluorescent label.
- (Previously presented) The oligomeric compound according to claim 9, wherein the modified oligonucleotide comprises a monomeric unit that is
 - (1) a linking moiety with a second label attached to a nucleotide, or
 - a linking moiety with a second label attached to a modified nucleotide or a non-nucleotide compound.
- 17. (Previously presented) The oligomeric compound according to claim 16, wherein the second label is a second fluorescent label.
- (Previously presented) The oligomeric compound according to claim 15, wherein the fluorescent label is selected from the group consisting of
 - (1) a fluorescein dye,
 - (2) a rhodamine dye,
 - (3) a cyanine dye, and
 - (4) a coumarin dye.
- (Previously presented) The oligomeric compound according to claim 9, wherein the oligomeric compound cannot be extended enzymatically.
- (Previously presented) The oligomeric compound according to claim 19, wherein
 the monomeric unit at the 3'-end of the oligomeric compound is a 2',3'-dideoxynucleotide or a 3'-phosphorylated nucleotide.
- 21-23. (Previously canceled)
- (Currently amended) A method for the chemical synthesis of an oligomeric compound according to claim 9, comprising:
 - (a) providing a compound of claim 1, wherein R² is phosphoramidite and R³ is a protecting group,

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- (b) providing a 5'-OH group of a nucleoside or a modified nucleoside bound to a solid phase by the 3'-OH group, or providing a 5'-OH group of an oligonucleotide or a modified oligonucleotide bound to a solid phase by the 3'-OH group of the nucleotide or the modified nucleotide at the 3'-end of the oligonucleotide or the modified oligonucleotide,
- (c) reacting the phosphorous atom of the phosphoramidite with the 5'-OH group to form a hosphate phosphite ester and oxidizing the hosphate phosphite ester to a phosphotriester.
- (d) optionally reacting any unreacted 5'-OH group of step (c) with another compound to prevent any further reactions of the unreacted 5'-OH group of step (c) in the following steps.
- (e) optionally repeating steps (a) to (d) with phosphoramidite derivatives of nucleosides or modified nucleosides after removal of the protecting group of the compound of claim 1, and
- (f) cleaving the oligomeric compound from the solid phase, removing the
 protecting groups and thereby converting the phosphotriester to a
 phosphodiester, and
- (g) isolating the oligomeric compound.
- (Previously presented) A method for the enzymatic synthesis of a polymeric compound or an oligomeric compound according to claim 9, comprising:
 - (a) incubating a compound of claim 1, wherein R² of said compound is a triphosphate, with a 3'-OH group of the nucleotide or modified nucleotide at the 3'-end of a polynucleotide, oligonucleotide or a modified oligonucleotide in the presence of terminal transferase, whereby the compound is attached to the 3'-OH, and whereby pyrophosphate is released, and
 - (b) isolating the polymeric or oligomeric compound.
- (Previously presented) A method to attach a label to an oligomeric compound of claim 9, whereby R⁷ of the oligomeric compound is a protecting group, comprising:
 - (a) removing the protecting group R⁷, and
 - (b) reacting the deprotected moiety of the oligomeric compound with the label.
- (Previously presented) A method for the detection of a target nucleic acid in a sample comprising:
 - (a) providing a sample suspected to contain the target nucleic acid,

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- providing an oligomeric compound according to claim 9, which is essentially complementary to a part or all of the target nucleic acid,
- optionally amplifying the target nucleic acid with a template-dependent DNA polymerase and primers,
- (d) contacting the sample with the oligomeric compound under conditions for binding the oligomeric compound to the target nucleic acid, and
- determining the binding product or the degree of hybridization between the target nucleic acid and the oligomeric compound as a measure of the presence, absence or amount of the target nucleic acid.
- (Previously presented) The method according to claim 27, wherein the oligomeric compound has a protecting group that is a fluorescent label.
- 29. (Previously presented) The method according to claim 27, wherein in step (d) the degree of hybridization is determined by the quantity of the first or second fluorescent label that is released from the oligomeric compound hybridized to the target nucleic acid by exonuclease hydrolysis by the template-dependent DNA polymerase.
- 30. (Previously presented) A method for detecting the presence or absence of a target nucleic acid in a sample, comprising: performing at least one cycling step, wherein a cycling step comprises an amplifying step and a hybridizing step, wherein said amplifying step comprises contacting said sample with primers to produce a an amplification product if target nucleic acid is present in said sample, wherein said hybridizing step comprises contacting said sample with a pair of probes, wherein at least one of the probes is an oligomeric compound according to claim 9 wherein at least one of the probes is an oligomeric compound according to claim 9 wherein nt P is a label, wherein the members of said pair of probes hybridize to said amplification product within no more than five nucleotides of each other, wherein a first probe of said pair of probes is labeled with a donor fluorescent label and wherein a second probe of said pair of probes is labeled with an acceptor fluorescent label;

and detecting the presence or absence of fluorescence resonance energy transfer between said donor fluorescent label of said first probe and said acceptor fluorescent label of said second probe, wherein the presence of fluorescence resonance energy transfer is indicative of the presence of the target nucleic acid in the sample, and

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wherein the absence of fluorescence resonance energy transfer is indicative of the absence of the target nucleic acid in the sample.

- 31. (Previously presented) A kit for detecting a target nucleic acid in a sample, comprising:
 - a template-dependent polymerase having 3' to 5' exonucleolytic activity,
 - a set of primers,
 - nucleotides, and
 - an oligomeric compound according to claim 9, wherein R⁷ is a label.